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COMMONWEALTH of VIRGINIA

C. M. G. BUTTERY, M.D., M.P.H.
STATE HEALTH COMMISSIONER

Department of Health
Richmond, Virginia 23219

May 29, 1991

MEMORANDUM

To: Regional Directors
Regional Sanitarians
District Directors
District Sanitarians

From: Donald J. Alexander, Director *Donald J. Alexander*
Bureau of Sewage and Water Services

Subject: Tuf-Tite distribution box

Enclosed is a letter summarizing the results of the review of the Tuf-Tite distribution box. This box may be used in any application a concrete distribution box is applicable. Please advise your staff accordingly.

Thank you.

enclosures



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COMMONWEALTH of VIRGINIA

C. M. G. BUTTERY, M.D., M.P.H.
STATE HEALTH COMMISSIONER

Department of Health
Richmond, Virginia 23219

May 28, 1991

Mr. Ted Meyers
Tuf-Tite, Inc.
8A Hillside Drive
Barrington, IL 60010

Dear Mr. Meyer:

This letter is to confirm that the Bureau of Sewage and Water Services has reviewed the Tuf-Tite high density polyethylene distribution box for compliance with § 4.28.C of the Sewage Handling and Disposal Regulations. Our review included an evaluation of the following: flow characteristic test data (one page with four graphic illustrations), a video tape of the testing process and a visual inspection of the distribution box.

The distribution box substantially complies with the size requirements in the regulations and, when properly installed, can comply with the functional intent (i.e., equal flow splitting) of the regulations. Section 4.28.C.2 of these regulations allows the use of concrete (3,000 psi) and other materials on a case by case basis. The high density polyethylene material used in the Tuf-Tite box is resistant to chemical and electrolytic corrosion. Further, the box appears to have sufficient strength to resist compressive and bearing loads which can reasonably be expected to occur.

As a result of this review, the Bureau of Sewage and Water Services finds that the Tuf-Tite distribution box is functionally equivalent in all relevant respects to distribution boxes presently in use in the Commonwealth. Therefore, the Tuf-Tite distribution box may be used in Virginia as a flow splitting device for septic tank drainfield systems. This authorization is valid for an indefinite period of time and is subject to re-evaluation should the product fail to perform satisfactorily under field use conditions. Further, this authorization is for this product only and is not transferable. In the event that product materials or specifications change, the Department may require the revised product to be re-evaluated.



Mr. Ted Meyers
May 29, 1991
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Use of the Tuf-Tite distribution box will require the use of Tuf-Tite fittings and seals installed in accordance with the literature you submitted. Individual installations must be inspected and shown to be water tight and providing equal flow to the laterals.

I appreciate the effort that was put into your submission package. The quality of the material was above average which made the review easy to complete. Should you have any questions please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Donald J. Alexander", with a stylized flourish at the end.

Donald J. Alexander, Director
Bureau of Sewage and Water Services

cc: Regional Directors
Regional Sanitarians
District Directors
District Sanitarians

**Meets all state codes
except Rhode Island**

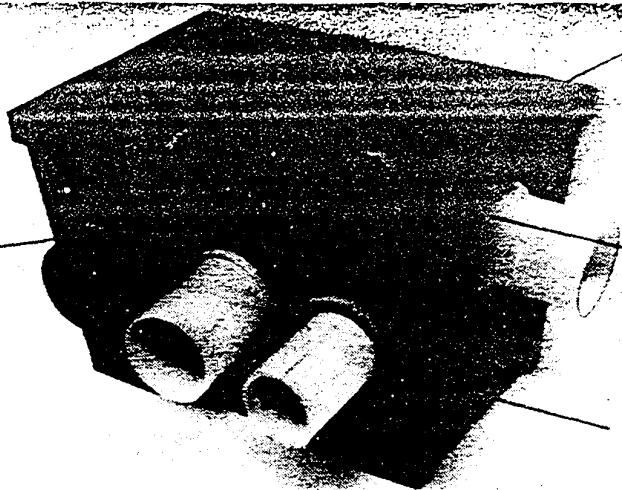
Blue S-40 Seal – Schedule 40
or 4" Corrugated Tubing

9-Hole D-Box
15" x 15" x 22"

Yellow & Black Speed Lever
for Flow Control – 3" & 4"

Yellow S-35 Seal
Sewer and Drain or SDF

Green S-43
4" x 3" Adapter



Tuf-Tite® products are made in the
U.S. and distributed in 50 states and
Canada by:

- Precast concrete dealers
- Pipe manufacturers
- Lumber yards
- Plumbing supply
- Hardware stores

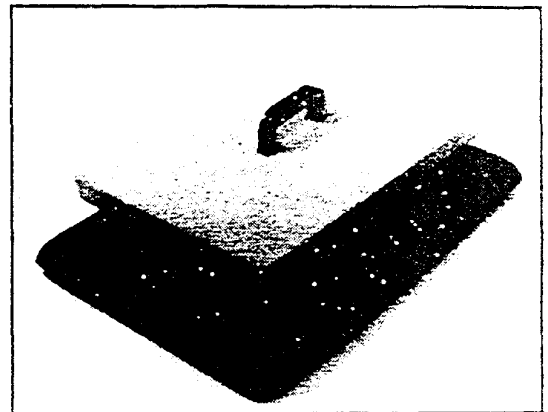
Contact your local precast concrete
dealer or pipe supplier for more
informaton or call toll-free:

1-800-382-7009

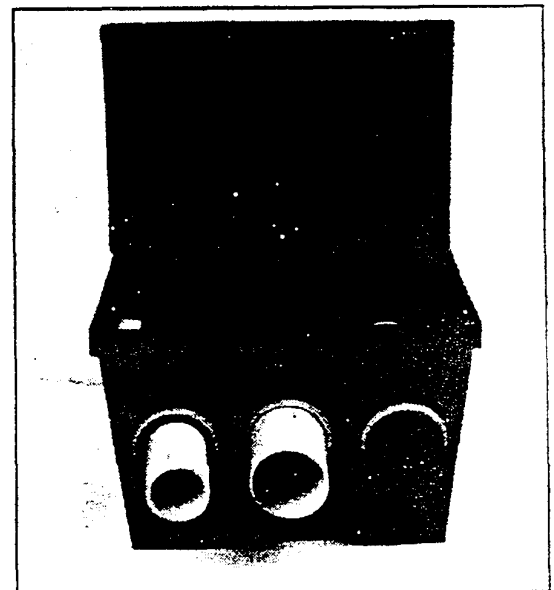
for samples and complete catalog.

TUF-TITE® INC.

8A Hillside Drive
Barrington, IL 60010
Fax #708-382-7022



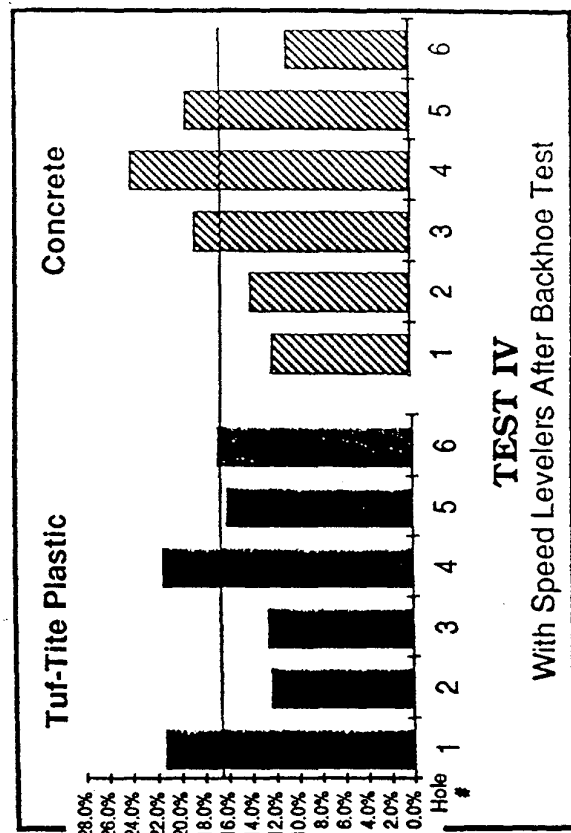
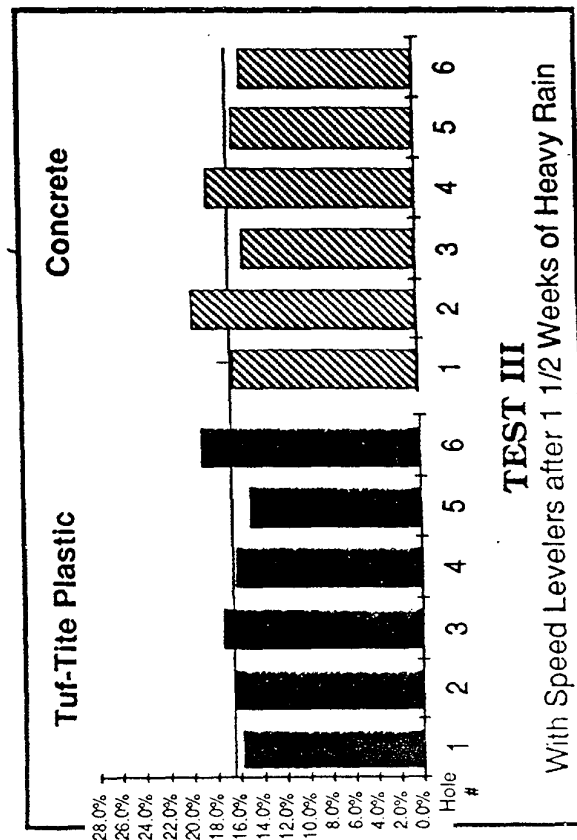
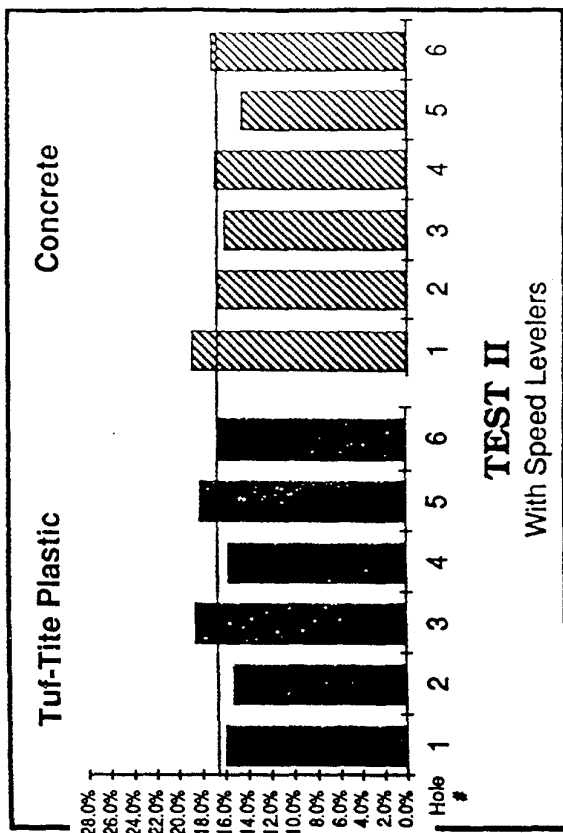
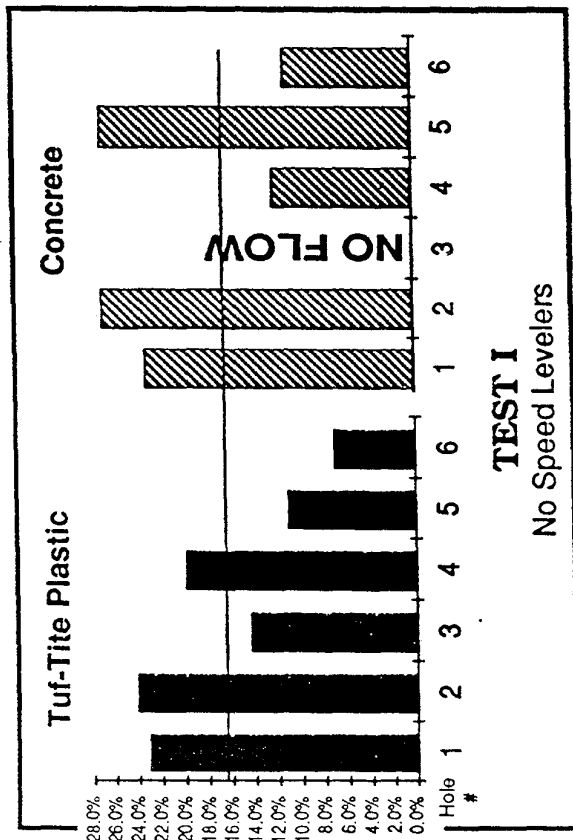
Concrete Lid Mold



Domed Plastic Lid

Tuf-Tite[®], Inc.

Virginia Test



Approximate average flow - 2 gallons per minute.

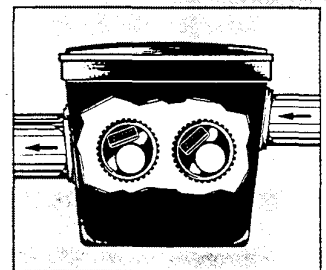
**TUF-TITE®**

7-Hole Distribution Box



Tough Problem

Providing a simple, reliable, and permanent means for dividing septic tank effluent flow.



TUF-TITE Solution

A strong, stable, permanent, non-corrosive Tuf-Tite Distribution Box, with a Tuf-Tite Speed Leveler in each outlet.

- Injection molded HDPE
- Non-corrosive
- Simple to install
- Easy to level

In a septic environment, no other material can match High Density Polyethylene in delivering a lifetime of trouble-free service. Tuf-Tite Distribution Boxes are injection molded, using only premium HDPE which contains no fillers or foam.



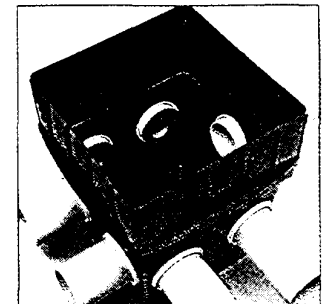
Snap-in pipe seals

They snap in without tools. Simply insert your PVC pipe and push it through the flexible, polyethylene Tuf-Tite seal. Pipes fit watertight. Installation couldn't be easier.



They're permanent

Unlike cement-based pipe grout, Tuf-Tite seals will not crack or corrode in septic conditions. They stay pliable and watertight permanently.



Stackable Riser

Easily extend the top of the box to grade, in 6" increments. Stackable HDPE Risers interlock firmly and accept a screw-on lid or grate.

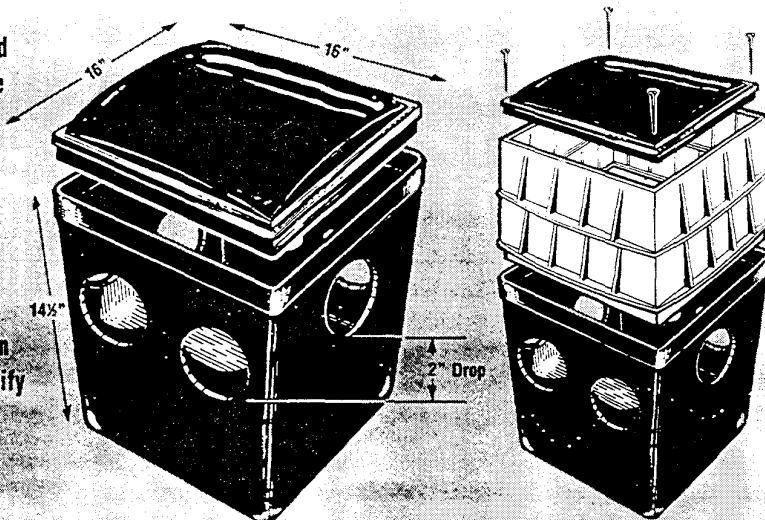
TUF-TITE®

7-Hole Distribution Box 7HD2

■ Injection molded of non-corrosive HDPE.

■ Domed Lid is ribbed for exceptional strength.

■ Patented snap-in pipe seals simplify installation



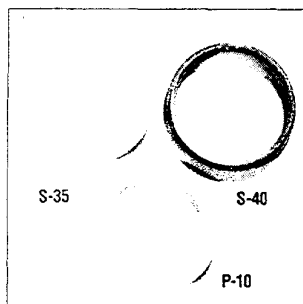
Domed Lid. Can be anchored to box or Riser with 4 stainless screws.

Optional Risers. They stack, in 6" increments, to extend Box to grade.

Fittings included. The 7HD2 comes complete with a Domed Lid and 9 snap-in fittings of your choice.

INSTALLATION IS JUST THIS SIMPLE

1. Position the distribution Box on level virgin soil. **Do not place box on a concrete slab.**
2. Install the inlet pipe and outlet pipes. Be sure the bottoms of all pipes rest on virgin soil.
3. Level the Distribution Box and all pipes as needed.
4. Backfill the pipes to within two feet of the Distribution Box. Recheck the level of the box, then backfill up to the top lid ridge.
5. Install and adjust Tuf-Tite Speed Levelers.
6. Place lid on the Distribution Box and finish backfilling.



Choice of Fittings

S-35 Pipe Seal, for:

- Sewer and Drain
- SDR 35 ■ ASTM 3034
- Thin Wall ■ 1500 Lb. Crush

S-40 Pipe Seal, for:

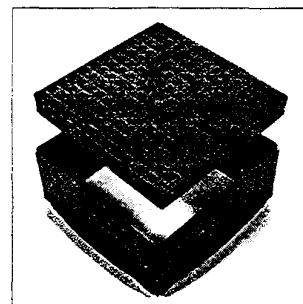
- Schedule 40
- 4" Corrugated

P-10 Plug, for unused holes



Tuf-Tite Speed Levelers™

Control the flow of effluent from the Distribution Box. Simply insert a Speed Leveler into each outlet pipe. Rotate each Leveler so the flow is distributed as desired. Available for 3" or 4" PVC pipes.

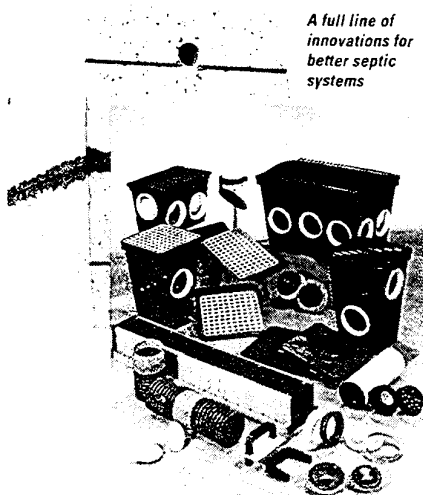


Versatile Options

Drain Grate. Black 16" x 16" HDPE grate. ADA compliant. Can be affixed to Box or Riser with 4 stainless corner screws. **6" Riser.** Stackable 16" x 16" HDPE Riser provides 6" elevation to the Box or Riser. Ribbed for added rigidity.

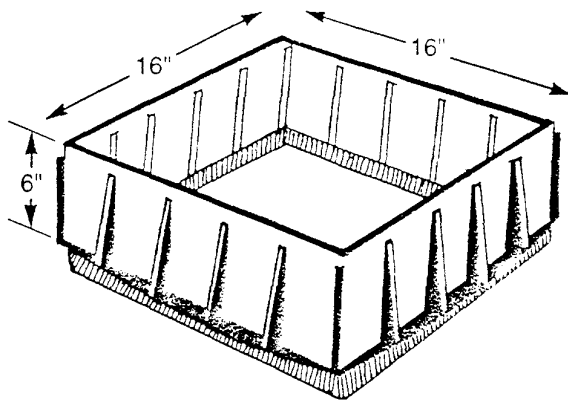


1125 Old Rand Road
Wauconda, Illinois 60084

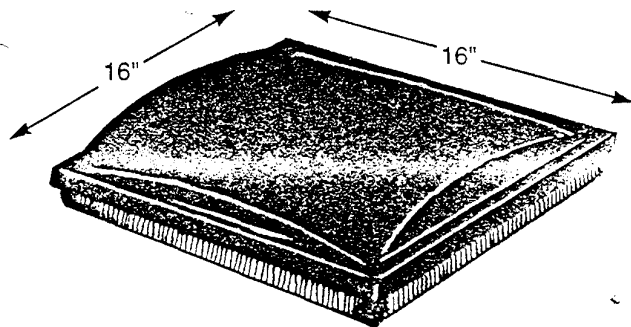


A full line of
innovations for
better septic
systems

TUF-TITE® Drainage and Septic Product



MODEL B4 RISER
HDPE ribbed construction.
Interlocking, stackable design.



MODEL B4-RL LID
16" x 16" Domed Lid molded
of rugged HDPE.

Septic Tank with Three B4 Risers and Lid

